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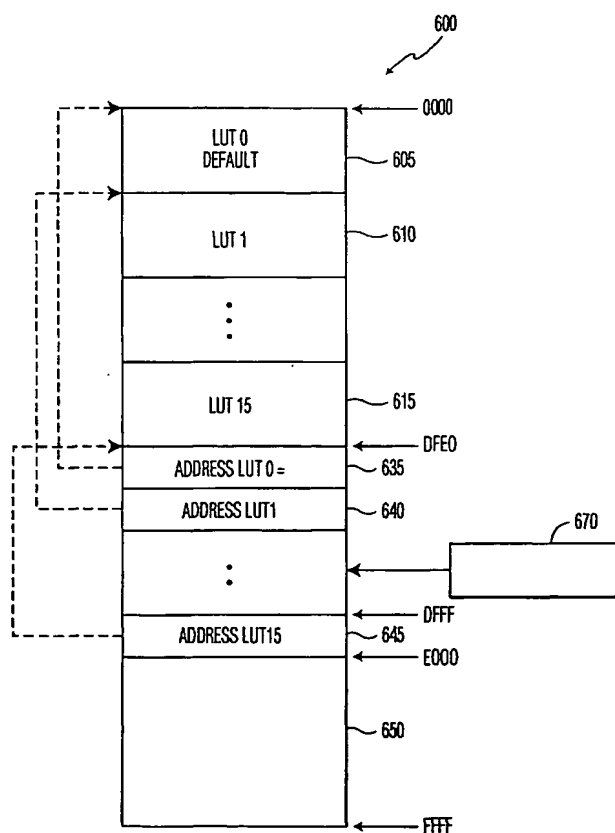
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(54) Title: LOOK-UP TABLES WITH GRAYLEVEL TRANSITION WAVEFORMS FOR BI-STABLE DISPLAY



(57) Abstract: A method and system for controlling electrophoretic and other bi-stable displays (310). Coded data (605, 610, 615) for driving the display is stored in memory (320) for different pixel transitions and different temperatures. The coded data includes voltage level and timing information for the different pixel transitions. A portion (705, 710, 715, 720, 725, 730) of the coded data is retrieved by a controller (100) such as an ASIC based on a selected pixel transition, temperature, and update mode. The portion of the coded data, which may include fixed length frame instructions, is decoded to provide decoded data. The decoded data is used to provide voltage waveforms for driving the display.

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Declarations under Rule 4.17:

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MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

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